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CIRCULAR No. 9.

U. S. DEPARTMENT OF AGRICULTURE.

BUREAU OF ANIMAL INDUSTRY.

CHECK LIST OF THE ANIMAL PARASITES OF CHICKENS.

(Gallus domesticus.)

This check list is taken from the card catalogue of the Zoological Laboratory, Bureau of Animal Industry, and contains all of the animal parasites of the barnyard fowl recorded up to the present time, so far as it has been possible to trace them in veterinary and zoological literature. The generic names are printed in brevier antique lower case, ex., *Cercomonas*; the generally accepted specific names are given in brevier small caps under the generic name, ex., *GALLINÆ*. Many species have been described under more than one name, and on this account the synonyms are also given in this list; these synonyms are printed in brevier italics and cross referenced to the name adopted for the parasite by the most recent authorities, ex., "*Coccidium Rivolta* see *C. TENELLUM*." The author's name immediately following the specific name refers to the author who first described the parasite under that specific name, and the date is the date of the specific name: thus, "*C. TENELLUM* Railliet & Luce, 1891" signifies that Railliet and Luce proposed the name *C. TENELLUM* in 1891. If an author's name and date are included in parenthesis, and a second author's name and date follow the parenthesis, the first author and date refer to the specific name, the second to the specific combination (binomial): thus, "*Isospora avium* (Rivolta, 1878) Railliet, 1885," signifies that Rivolta described this parasite in 1878 under the specific name *avium* (i. e., *Psonospermium avium* Rivolta, 1878,) and that Railliet in 1885 transferred the species to the genus *ISOSPORA*. In case the word "nec" is combined with an author's name (*C. Rivoltæ* Harz, 1886 [*nec* Grassi, 1881]), the parasite described by the second author under the given name is not the same as the one described by the first author under the same name.

In establishing the correct name of any animal, according to the International Code, it is necessary to combine the earliest available specific name with the earliest available generic name for that animal. A name is available only when it has been published with a recognizable description or figure, and when it has not been used at an earlier date for another species (specific name) of the same genus or for another genus (generic name) of the same kingdom.

In the present list I do not commit myself as to the validity of any species or genus, or to the validity of any specific or generic name. The names given are those adopted by the most recent authorities, but it will be years before all of these forms can be properly studied. In a few cases I have adopted here the "generally accepted name," even if it is apparently not the first available name, as I consider it better to make changes in nomenclature only when the literature can be given. An historical review of the species is, however, out of the question in a check list of this kind.

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Approved:

J. STERLING MORTON, Secretary.
WASHINGTON, D. C., March 25, 1896.

PROTOZOA—UNICELLULAR ANIMALS.

Cercomonas

GALLINÆ Rivolta ? Trachea

Coccidium*Rivolta* see COCCIDIUM TENELLUM.

TENELLUM Railliet & Lucet, 1891 Intestine

1886, *C. Rivolta* Harz [nec Grassi, 1881].**Eimeria**DUBIA Railliet, 1892 Submucous connective tissue of intestine
1878, *Gregarina avium intestinalis* Rivolta.**Gregarina***avium intestinalis* see EIMERIA DUBIA.**Isospora**AVIUM (Rivolta, 1878) Railliet, 1883 Intestine
1878, *Psorospermum avium* Rivolta.**Psorospermum***avium* see ISOSPORA AVIUM.**Sænolophus** see TRICHOMONAS EBERTHI.**Sarcocystis**

sp. (Coll. B. A. I.) Muscles

TrichomonasEBERTHI Glands of Lieberkühn (intestine)
1863, *Sænolophus* Leuckart.

TREMATODA—FLUKES.

Cephalogonimus (also as subg. of *Distomum*).

OVATUS (Rudolphi, 1802) Stossich, 1892 Bursa of Fabricius

1802, *Fasciola ovata* Rudolphi.1809, *Distoma ovatum* (Rudolphi, 1802) Rudolphi.1846, *D. bursicola* Creplin.

PELLUCIDUS (von Linstow, 1873) Railliet, 1890 Oesophagus

1873, *Distomum pellucidum* von Linstow.**Crossodera** (also as subg. of *Distomum*)

LINEARIS (Rudolphi, 1793) Cobbold, 1860 Large intestine

1793, *Fasciola linearis* Rudolphi.1803, *Distoma lineare* (Rudolphi, 1793) Zeder.**Distomum** (also *Distoma*)

armatum * Molin, 1858 [nec (Rudolphi, 1793) Zeder, 1803] see ECHINOSTOMUM

ECHINATUM.

bursicola see CEPHALOGONIMUS OVATUS.*columbae* see MESOGONIMUS COMMUTATUS.*commutatum* see " "*dilatatum* * see ECHINOSTOMUM ECHINATUM.*dimorphum* see MESOGONIMUS COMMUTATUS.*echinatum* * see ECHINOSTOMUM ECHINATUM.*lineare* see CROSSODERA LINEARIS.*ovatum* see CEPHALOGONIMUS OVATUS.*oxycephalum* see ECHINOSTOMUM ECHINATUM.*pellucidum* see CEPHALOGONIMUS PELLUCIDUS.

* Railliet thinks that both *D. armatum* Molin and *D. dilatatum* of chickens are identical with *D. echinatum* of ducks. Various authors have published long lists of synonymy of *E. echinatum*. The numerous synonyms are omitted in this paper, as I am very skeptical as to the standing of most of them. The genus *Echinostomum* de Blainville, 1828 [type-species *E. echinatum* (Zeder, 1803)] must be subjected to monographic revision, based upon specimens as well as literature, before we can look upon the synonymy as established,

Echinostomum (also **Echinostoma**) (also as subg. of **Distomum**)*dilatatum** see E. ECHINATUM.**ECHINATUM*** (Zeder, 1803) de Blainville, 1828.1803, *Distoma echinatum** Zeder.? 1819, *Distoma oxycephalum** Rudolphi.? 1846, " *D. dilatatum** Miram n. sp." [nomen nudum of Creplin].? 1858, *D. armatum** Molin [*nec* (Rudolphi, 1793) Zeder, 1803].? 1860, " *Echinostoma dilatatum** (Miram," 1846) Cobbold.**Fasciola***linearis* see **CROSSODERA LINEARIS**.*orata* see **CEPHALOGONIMUS OVATUS**.*verrucosa* see **NOTOCOTYLE VERRUCOSUM**.*trachea* see **SYNGAMUS TRACHEALIS**.**Mesogonimus** (also as subg. of **Distomum**),**COMMUTATUS** (Diesing, 1858) Sonsino, 1889 Intestine1852, *Distoma dimorphum* Wagner [*nec* Diesing, 1850].1858, *D. commutatum* Diesing.1889, *D. columbae?* Mazzanti.1890, *Mesogonimus dimorphus* (Wagner, 1852 [*nec* Diesing, 1850]) Railliet.*dimorphus* see **MESOGONIMUS COMMUTATUS**.**Monostomum** (also **Monostoma**)*attenuatum* see **NOTOCOTYLE VERRUCOSUM**.*lineare* " " "*verrucosum* " " "**Notocotyle***triseriale* see **NOTOCOTYLE VERRUCOSUM**.**VERRUCOSUM** (Frölich, 1789) Monticelli, 1892 Intestine1789, *Fasciola verrucosa* Frölich.1800, *Monostomum verrucosum* (Frölich, 1789) Zeder.1809, *M. attenuatum* Rudolphi [*nec* Molin, 1859].1819, *M. lineare* Rudolphi.1839, *Notocotylus triserialis* Diesing.1850, *Notocotyle triseriale* (Diesing, 1839) Diesing.**Notocotylus***triserialis* see **NOTOCOTYLE VERRUCOSUM**.**CESTODA.† TAPEWORMS.****Bothriocephalus***longicollis* see **BOTHRIOTÆNIA LONGICOLLIS**.**Bothriotænia****LONGICOLLIS** (Molin, 1858) Railliet, 1892 Intestine1858, *Dibothrium longicolle* Molin.1878, *Bothriocephalus longicollis* (Molin, 1858) von Linstow.**Cotugnia****DIGONOPORA** (Pasquale, 1890) Diamare, 1893 Intestine1890, *Tania digonopora* Pasquale.

* Railliet thinks that both *D. armatum* Molin and *D. dilatatum* of chickens are identical with *D. echinatum* of ducks. Various authors have published long lists of synonymy of *E. echinatum*. The numerous synonyms are omitted in this paper, as I am very skeptical as to the standing of most of them. The genus *Echinostomum* de Blainville, 1828 [type-species *E. echinatum* (Zeder, 1803)] must be subjected to monographic revision, based upon *specimens* as well as literature, before we can look upon the synonymy as established.

† For a discussion of these parasites see Stiles' Report upon the Present Knowledge of the Tapeworms of Poultry; Bull. 12, Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C.

Cysticercus

sp. Baillet Peritoneum

Davainea

CESTICILLUS (Molin, 1858) R. Blanchard, 1891 Intestine
1858, *Tænia cesticillus* Molin.

ECHINOBOTHRIDA (Mégnin, 1881) R. Blanchard, 1891 Intestine
1881, *Tænia echinobothrida* Mégnin.

PROGLOTTINA (Davaine, 1860) R. Blanchard, 1891 Intestine
1860, *Tænia proglottina* Davaine.

TETRAGONA (Molin, 1858) R. Blanchard, 1891 Intestine
1858, *Tænia tetragona* Molin.

1882, *T. bothrioplitis* Piana.

Dibothrium

longicolle see BOTHRIOΤÆNIA LONGICOLLIS.

Dicranotænia

cuneata see DICRANOTÆNIA SPHENOIDES.

SPHENOIDES (Railliet, 1892) Railliet, 1896 Intestine
1872, *Tænia cuneata* v. Linstow [*nec* Batsch, 1786].

1892, *T. sphenoides* Railliet.

1893, *Dicranotænia cuneata* (v. Linstow, 1872) Railliet.

Dithyridium

? VARIABILE (Diesing, 1850) Peritoneum
1850, *Piestocystis variabilis* Diesing.

Drepanidotænia

INFUNDIBULIFORMIS (Goeze, 1782) Railliet, 1893 Intestine

1779, *Tænia infundibulum* Bloch pro parte.

1782, *T. infundibuliformis* Goeze.

Fimbriaria

MALLEUS (Goeze, 1782) Frölich Intestine

1781, *Tænia fasciolaris* γ malleus Pallas.

1782, *T. malleus* Goeze.

1802, *Fimbriaria mitra* Frölich.

Piestocystis

variabilis see DITHYRIDIUM VARIABILE.

Tænia (s. l.)

bothrioplitis see DAVAINEA TETRAGONA.

cesticillus see " CESTICILLUS.

cuneata see DICRANOTÆNIA SPHENOIDES.

digonopora see COTUGNIA DIGONOPORA.

echinobothrida see DAVAINEA ECHINOBOTHRIDA.

EXILIS Dujardin 1845 Intestine

fasciolaris γ malleus see FIMBRIARIA MALLEUS.

infundibuliformis see DREPANIDOTÆNIA INFUNDIBULIFORMIS.

malleus see FIMBRIARIA MALLEUS.

proglottina see DAVAINEA PROGLOTTINA.

sp. Intestine

sphenoides see DICRANOTÆNIA SPHENOIDES.

tetragona see DAVAINEA PROGLOTTINA.

NEMATODA—ROUND WORMS.**Ascaris**

compar see HETERAKIS COMPAR.

funiculus see " PERSPICILLUM.

gallopavonis see " "

gibbosa see " "

inflexa see " "

Ascaris—Continued.

- lagopodis* see HETERAKIS COMPAR.
papillosa see " PAPILLOSA.
perspicillum see " PERSPICILLUM.
vesicularis see " PAPILLOSA.

Capillaria

- semiteres* see TRICHOSOMA LONGICOLLE.

Cheilospirura

- hamulosa* see DISPHARAGUS HAMULOSUS.

Dispharagus

- HAMULOSUS (Diesing, 1851) Stossich, 1890 Ventriculus
 1851, *Spiroptera hamulosa* Diesing.
 1860, *Cheilospirura hamulosa* (Diesing, 1851) Diesing.
 LATICEPS (Rudolphi, 1819) Dujardin, 1845 Oesophagus
 1819, *Spiroptera laticeps* Rudolphi.
 1866, *Filaria laticeps* (Rudolphi, 1819) Schneider.
 NASUTUS (Rudolphi, 1819) Dujardin, 1845 Ventriculus
 1819, *Spiroptera nasuta* Rudolphi.
 1866, *Filaria nasuta* (Rudolphi, 1819) Schneider.
 SPIRALIS Molin, 1858 Oesophagus

Filaria

- gallinae* see TRICHOSOMA LONGICOLLE.

- laticeps* see DISPHARAGUS LATICEPS.

- MANSONI Cobbold, 1879 Eye

- nasuta* see DISPHARAGUS NASUTUS.

- phasiana* see TRICHOSOMA LONGICOLLE.

- tetricis* see " "

Fusaria

- compar* see HETERAKIS COMPAR.
reflexa see " PERSPICILLUM.
strumosa see " "

Gordius

- gallinae* see TRICHOSOMA LONGICOLLE.

Hamularia

- nodulosa* see TRICHOSOMA LONGICOLLE.

Heterakis

- BRASILIENSIS Magalhães, 1892 Intestine
 COMPAR (Schrank, 1790) Stossich, 1888 Intestine
 1790, *Ascaris compar* Schrank.
 1802, *A. lagopodis* Frölich.
 1803, *Fusaria compar* (Schrank, 1790) Zeder.
 COMPRESSA Schneider, 1866 Intestine
 DIFFERENS Sonsino, 1890 Intestine
inflexa see HETERAKIS PERSPICILLUM.
 PAPILLOSA (Bloch, 1782) Railliet, 1885 Intestine
 1782, *Ascaris papillosa* Bloch [nec Molin, 1860].
 1791, *A. vesicularis* Frölich pro parte.
 1845, *Heterakis vesicularis* (Frölich, 1791) Dujardin.
 PERSPICILLUM (Rudolphi, 1803) Schneider, 1866 Intestine
 1790, *Ascaris gallopononis* Gmelin.
 1800, *Fusaria reflexa* Zeder pro parte.
 1800, *F. strumosa* Zeder.
 1803, *Ascaris perspicillum* Rudolphi.
 1809, *A. gibbosa* Rudolphi.
 1819, *A. inflexa* Rudolphi.

Heterakis—Continued.**PERSPICILLUM**—continued.1824, *A. funiculus* E. Deslongchamps.1866, *Heterakis inflexa* (Rudolphi, 1819) Schneider.*vesicularis* see HETERAKIS PAPILLOSA.**Physaloptera**

TRUNCATA Schneider, 1866 Ventriculus

Sclerostomum (also **Sclerostoma**).*syngamus* see SYNGAMUS TRACHEALIS.**Spiroptera***hamulosa* see DISPHARAGUS HAMULOSUS.*laticeps* see " LATICEPS.*nasuta* see " NASUTUS.*sp.* Bakody Intestine (encysted)**Strongylus***trachealis* see SYNGAMUS TRACHEALIS.**Syngamus***primitivus* see SYNGAMUS TRACHEALIS.

TRACHEALIS v. Siebold, 1836 Trachea

1811, *Fasciola trachea* Montagu.1846, *Strongylus trachealis* (v. Siebold, 1836) Creplin.1851, *Sclerostomum syngamus* Diesing.1860, *Synagamus primitivus* Molin.**Trichosoma** (also **Trichosomum**)

ANNULATUM Molin, 1858 Intestine

COLLARE v. Linstow, 1873 Intestine

LONGICOLLE Rudolphi, 1819 Intestine

? 1782, *Gordius gallinae* Goeze.? 1790, *Filaria gallinae* (Goeze, 1782) Gmelin.? 1791, *F. phasiana* Frölich.? 1796, *Linguatula unilinguis* Schrank? 1802, *Filaria tetricis* Frölich.? 1803, *Capillaria semitres* Zeder.1810, *Hamularia nodulosa* Rudolphi.

longicolle Rudolphi of Dujardin & Eberth [nec Rudolphi] see TRICHOSOMA RETUSUM.

RETUSUM Railliet, 1893 Intestine

longicolle Dujardin & Eberth [nec Rudolphi].

ARACHNIDA. MITES.**Argas.**

MAURITIANUS Guérin External

Cytodites

NUDUS (Vizioli, 1868) Air passages

Dermanyssus

GALLINÆ (Redi) External

Dermoglyphus

ELONGATUS Méggnin External

MINOR Norner External

Epidermoptes

BIFURCATUS Rivolta External

BILOBATUS (Rivolta) Raillet & Lucet, 1891 External

Leiognathus

BURSA Berlese, 1888.

Linguatula*unilinguis* see TRICHOSOMA LONGICOLLE.

Leptus

AUTUMNALIS (Shaw, 1790) Latreille, 1795.....External

Laminosioptes

CYSTICOLA (Vizioli, 1868).....External

Lophoptes

PATAVINUS Méggnin, 1891.

Megnninia

ASTERNALIS (Méggnin).....External

CUBITALIS (Méggnin).....External

Pterolichus

OBTUSUS Robin.....External

Sarcoptes

LAEVIS var. *GALLINÆ* Railliet.....External

MUTANS Robin.....External

Syringophilus

BIPECTINATUS Heller, 1880.....External

Tydeus

MOLESTUS Moniez, 1889.

INSECTA. INSECTS.**Goniocotes**

BURNETTI Packard, 1870.....External

GIGAS Taschenberg, 1869.....External

HOLOGASTER (Nitzsch).....External

Goniodes

DISSIMILIS (Nitzsch).....External

Lipeurus

CAPONIS (Linné) Railliet, 1895.....External

HETEROGRAPHUS (Nitzsch).....External

Menopon

BISERIATUM Piaget, 1880.....External

TRIGONOCEPHALUM (Olfers) Railliet, 1895.....External

Sarcopsylla

GALLINACEA Westwood.....External

Vermipsylla

ALAKURT Shimkievitsh, 1885.....External

ADDENDUM: APRIL 10, 1896.

During the final proof correction I have obtained a paper by Railliet dated March 12, 1896, in which he proposes a new generic name *Bunodera* as a substitute for *Crossodera* Cobbold 1860 [*neec* Gould, 1837]; he also proposes a new genus *Choanotænia* for the species *Drepanidotænia infundibuliformis*. The paper arrived too late to incorporate the changes in this list.

